

Marked-Up Version To Show Changes Made

In the Claims:

Claims 1-24. Canceled.

Please add new claims 25-45 as follows:

25. (New) An isolated nucleic acid comprising a nucleic acid sequence which encodes a domain of a ramoplanin nonribosomal peptide synthetase, wherein said ramoplanin nonribosomal peptide synthetase comprises an amino acid sequence of SEQ ID NO: 13, SEQ ID NO: 14, SEQ ID NO: 15 or SEQ ID NO: 18.
26. (New) The isolated nucleic acid of claim 25, wherein said domain is a condensation domain, an adenylation domain, a thiolation domain or a thioesterase domain.
27. (New) The isolated nucleic acid of claim 25 wherein said ramoplanin nonribosomal peptide synthetase comprises an amino acid sequence of SEQ ID NO: 13.
28. (New) The isolated nucleic acid of claim 25 wherein said ramoplanin nonribosomal peptide synthetase comprises an amino acid sequence of SEQ ID NO: 14.
29. (New) The isolated nucleic acid of claim 25 wherein said ramoplanin nonribosomal peptide synthetase comprises an amino acid sequence of SEQ ID NO: 15.

30. (New) The isolated nucleic acid of claim 25 wherein said ramoplanin nonribosomal peptide synthetase comprises an amino acid sequence of SEQ ID NO: 18.
31. (New) The isolated nucleic acid of claim 26, wherein said condensation domain comprises an amino acid sequence selected from the group consisting of: amino acids 1-470 of SEQ ID NO: 13; amino acids 1-517 of SEQ ID NO: 14, amino acids 1106-1560 of SEQ ID NO: 14; amino acids 2159-2618 of SEQ ID NO: 14; amino acids 3237-3697 of SEQ ID NO: 14; amino acids 4241-4718 of SEQ ID NO: 14; amino acids 5307-5754 of SEQ ID NO: 14; amino acids 5838-6317 of SEQ ID NO: 14; amino acids 1-470 of SEQ ID NO: 15; amino acids 1109-1567 of SEQ ID NO: 15; amino acids 2122-2602 of SEQ ID NO: 15; amino acids 3212-3671 of SEQ ID NO: 15; amino acids 4217-4698 of SEQ ID NO: 15; amino acids 5317-5776 of SEQ ID NO: 15; amino acids 6363-6839 of SEQ ID NO: 15 and amino acids 7458-7925 of SEQ ID NO: 15.
32. (New) The isolated nucleic acid of claim 26, wherein said adenylation domain comprises an amino acid sequence selected from the group consisting of: amino acids 471-959 of SEQ ID NO: 13; amino acids 518-990 of SEQ ID NO: 14; amino acids 1561-2052 of SEQ ID NO: 14; amino acids 2619-3122 of SEQ ID NO: 14; amino acids 3698-4160 of SEQ ID NO: 14; amino acids 4179-5192 of SEQ ID NO: 14; amino acids 6318-6804 of SEQ ID NO: 14; amino acids 487-993 of SEQ ID NO: 15; amino acids 1568-2041 of SEQ ID NO: 15; amino acids 2603-3095 of SEQ ID NO: 15; amino acids 3672-4135 of SEQ ID NO: 15; amino acids 4699-5199 of SEQ ID NO: 15; amino acids 5777-6280 of SEQ ID NO: 15; amino acids 6840-7343 of SEQ ID NO: 15 and amino acids 7296-8380 of SEQ ID NO: 15.

amino acids 4719-5192 of SEQ ID NO: 14; amino acids 5193-5260 of SEQ ID NO: 14; amino acids 5307-5754 of SEQ ID NO: 14; amino acids 5755-5824 of SEQ ID NO: 14; amino acids 5838-6317 of SEQ ID NO: 14; amino acids 6318-6804 of SEQ ID NO: 14 and amino acids 6805-6873 of SEQ ID NO: 14.

37. (New) The isolated nucleic acid of claim 29, wherein said nucleic acid sequence encodes an amino acid sequence selected from the group consisting of: amino acids 1-486 of SEQ ID NO: 15; amino acids 487-993 of SEQ ID NO: 15; amino acids 994-1062 of SEQ ID NO: 15; amino acids 1109-1567 of SEQ ID NO: 15; amino acids 1568-2041 of SEQ ID NO: 15; amino acids 2042-2110 of SEQ ID NO: 15; amino acids 2122-2602 of SEQ ID NO: 15; amino acids 2603-3095 of SEQ ID NO: 15; amino acids 3097-3165 of SEQ ID NO: 15; amino acids 3212-3671 of SEQ ID NO: 15; amino acids 3672-4135 of SEQ ID NO: 15; amino acids 4136-4202 of SEQ ID NO: 15; amino acids 4217-4698 of SEQ ID NO: 15; amino acids 4699-5199 of SEQ ID NO: 15; amino acids 5200-5268 of SEQ ID NO: 15; amino acids 5317-5776 of SEQ ID NO: 15; amino acids 5777-6280 of SEQ ID NO: 15; amino acids 6281-6350 of SEQ ID NO: 15; amino acids 6363-6839 of SEQ ID NO: 15; amino acids 6840-7343 of SEQ ID NO: 15; amino acids 7344-7411 of SEQ ID NO: 15; amino acids 7458-7925 of SEQ ID NO: 15; amino acids 7926-8380 of SEQ ID NO: 15; amino acids 8381-8449 of SEQ ID NO: 15; and amino acids 8450-8695 of SEQ ID NO: 15.
38. (New) The isolated nucleic acid of claim 27, wherein said nucleic acid comprises a coding sequence identical to or complementary to nucleotides 15880-19035 of SEQ ID NO: 1 or a sequence that encodes an amino acid sequence of SEQ ID NO: 13.
39. (New) The isolated nucleic acid of claim 28, wherein said nucleic acid comprises a coding sequence identical to or complementary to nucleotides 19032-39713 of

SEQ ID NO: 1 or a sequence that encodes an amino acid sequence of SEQ ID NO: 14.

40. (New) The isolated nucleic acid of claim 29, wherein said nucleic acid comprises a coding sequence identical to or complementary to nucleotides 39713-65800 of SEQ ID NO: 1 or a sequence that encodes an amino acid sequence of SEQ ID NO: 15.
41. (New) The isolated nucleic acid of claim 30, wherein said nucleic acid comprises a coding sequence identical to or complementary to nucleotides 67384-70059 of SEQ ID NO: 1 or a sequence that encodes an amino acid sequence of SEQ ID NO: 18.
42. (New) The isolated nucleic acid of claim 1, wherein said nucleic acid is identical to or complementary to SEQ ID NO: 1.
43. (New) An expression vector comprising a nucleic acid of claim 25.
44. (New) A host cell transformed with an expression vector of claim 43.
45. (New) A method of preparing ramoplanin or an analog thereof, comprising transforming a host cell with an expression vector of claim 43, culturing said host cell under conditions such that a ramoplanin synthase is produced and catalyzes the synthesis of said ramoplanin or analog thereof.